

AMENDMENT AND RESPONSE UNDER 37 CFR § 1.111

Serial Number: 09/884,674

Filing Date: June 19, 2001

Title: SYSTEM AND METHOD FOR AUTOMATIC AND ADAPTIVE USE OF ACTIVE NETWORK PERFORMANCE MEASUREMENT

TECHNIQUES TO FIND THE FASTEST SOURCE

Assignee: Intel Corporation

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Dkt: 884.441US1 (INTEL)

IN THE CLAIMS

Please amend the claims as follows:

1. (Previously Presented) A method for managing a plurality of sources comprising:
selecting an empirical measurement of a performance of each of the plurality of sources,
wherein the empirical measurement is selected according to a size of data to be
obtained from at least one of the plurality of sources;
selecting a source in reference to the empirical measurements of the performance of each
of the plurality of sources; and
initiating a download of data from a download source of the plurality of sources.
2. (Cancelled)
3. (Original) The method of claim 1, wherein the determining further comprises:
obtaining an empirical measurement of a throughput speed of each of the plurality of
sources from a local source.
4. (Original) The method of claim 1, wherein the performance further comprises a
throughput speed.
5. (Original) The method of claim 1, wherein the performance comprises latency.
6. (Previously Presented) The method of claim 5, wherein the determining the empirical
measurement further comprises:
measuring the elapsed time of a transmission involving each of the plurality of sources.

7. (Previously Presented) The method of claim 5, wherein the determining the empirical measurement further comprises for each of the plurality of sources:

recording transmission time from the current time and date;
initiating a transmission to a download source of the plurality of sources;
receiving a response to the transmission from the source;
recording the receipt time from the current date and time; and
determining the throughput speed of the source from the difference between the receipt time and the transmission time.

8. (Previously Presented) A tangible computer-accessible medium having executable instructions for managing a plurality of sources, said executable instructions capable of directing a processor to perform:

selecting an empirical measurement of a throughput speed of each of the plurality of sources, wherein the empirical measurement is selected according to a size of data to be obtained from at least one of the plurality of sources;
selecting a source in reference to the empirical measurements of the throughput speed of each of the plurality of sources; and
initiating a download of data from a download source of the plurality of sources.

9. (Original) The medium of claim 8, wherein the throughput speed further comprises a download speed.

10. (Original) The computer-readable medium of claim 8, wherein said instruction for determining further comprises an instruction capable of directing the processor to perform:
measuring a throughput speed of each of the plurality of sources.

11. (Original) The medium of claim 10, wherein said instruction for measuring further comprises instructions capable of directing the processor to perform for each of the plurality of sources:

recording transmission time from the current time and date;
initiating a transmission to a download source of the plurality of sources;
receiving a response to the transmission from the source;
recording the receipt time from the current date and time; and
determining the throughput speed of the source from the difference between the receipt
time and the transmission time.

12.-18. (Cancelled)

19. (Previously Presented) The medium of claim 8, wherein the download source further comprises a source in a peer-to-peer network.
20. (Previously Presented) The medium of claim 8, wherein said instruction for determining further comprises instructions capable of directing the processor to perform:
recording transmission time from the current time and date;
initiating a transmission to a download source of the plurality of sources;
receiving a response to the transmission from the source;
recording the receipt time from the current date and time; and
determining the round-trip timing of the download source from the difference between
the receipt time of the response and the transmission time of the transmission.

21. (Previously Presented) A computerized method for managing a plurality of sources comprising:

- obtaining a list comprising a plurality of identification of sources;
- initiating a plurality of socket connections, the plurality of socket connections further comprising one socket connection for each of the plurality of sources, yielding a plurality of initiated socket connections;
- selecting an empirical measurement of performance of each of the plurality of sources, the empirical measurement selected according to a predetermined file size;
- receiving a response for each of the plurality of initiated socket connections, yielding a plurality of responses;
- selecting a source of the plurality of sources in reference to the empirical measurement of performance; and
- initiating a download of data from a download source of the plurality of sources.

22. (Original) The computerized method of claim 21, wherein the predetermined file size is less than a predetermined threshold file size and wherein the selecting further comprises:

- selecting the source associated with the response that is received first.

23. (Original) The computerized method of claim 21, wherein the predetermined file size is greater than a predetermined threshold file size and wherein the selecting further comprises:

- measuring the latency of each of the plurality of sources; and
- selecting a source in reference to the download speed of each of the plurality of sources.

24. (Previously Presented) The computerized method of claim 23, wherein measuring the latency further comprises:

storing a time and date of each of the plurality of initiating socket connections;
storing the time and date of each of the plurality of responses; and
determining the download speed of each of the plurality of sources from the differences in time between the time and date of each of the plurality of the responses and the time and date of each of the plurality of the initiating socket connections.

25. (Previously Presented) A system for managing sources in a peer-to-peer network comprising:

a processor;
software means operative on the processor for selecting an empirical measurement of a throughput speed of each of the plurality of sources, the empirical measurement selected according to a size of data to be obtained from at least one of the plurality of sources;
the software means including obtaine means to obtain the empirical measurement of a throughput speed of each of the plurality of sources from at least one third-party source;
the software means selecting a source in reference to the empirical measurements of the throughput speed of each of the plurality of sources and the at least one third-party source; and
a transmitter to initiate a download of data from a download source of the plurality of sources.

26. (Original) The system of claim 25, wherein the throughput speed further comprises a round-trip time.

27. (Original) The system of claim 25, wherein the throughput speed further comprises a latency.

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28. (Previously Presented) A computerized system comprising:

- a determiner of an empirical measurement of a throughput speed of each of the plurality of download peer-to-peer network sources;
- the determiner operable to select an empirical measurement of a throughput speed of each of the plurality of sources from at least one third-party source, the empirical measurement selected according to a size of data to be obtained from at least one of the plurality of download peer-to-peer network sources;
- a selector of a source in reference to the empirical measurement of the throughput speed of each of the plurality of peer-to-peer network sources and the at least one third-party source; and
- a transmitter to initiate a download of data from a download source of the plurality of peer-to-peer network sources.

29. (Previously Presented) The computerized system of claim 28, the determiner further comprising:

- a transmitter to transmit a message to a download source of the plurality of sources;
- a recorder of the time of a transmission of a message, operably coupled to the transmitter;
- a receiver of a response to the transmission from the source, operably coupled to the transmitter;
- a recorder of the time of receipt of a response; and
- a determiner of the throughput speed of the source, from the difference between the receipt time and the transmission time.

30. (Previously Presented) The computerized system of claim 28, wherein:

- the message further comprises a TCP/IP synchronized idle message; and
- the response further comprises a TCP/IP acknowledgment message.